

Date: Fri, 19 Feb 93 04:30:04 PST
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V93 #45
To: packet-radio

Packet-Radio Digest Fri, 19 Feb 93 Volume 93 : Issue 45

Today's Topics:

 A Packet is comprised of...
 computer help needed
 KISS on MFJ-1278
 NOSintro - TCP/IP over Packet Radio (3 msgs)
 packet/BBS addressing question
 Packet White Pages in other countries
 TCP/IP book for packet?
 What is best modem for Satellite Packet? (3 msgs)

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 17 Feb 1993 19:52:42 GMT
From: usc!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcso!hplvec!
tcline@network.UCSD.EDU
Subject: A Packet is comprised of...
To: packet-radio@ucsd.edu

> In rec.radio.amateur.packet, miskines@acsu.buffalo.edu (Robert J. Miskines)
writes:

>

>

> A friend of mine, an active ham, wishes to write some software for use
> w/ packet radio. He's not using a TNC, so, he needs to program all the
> niceities usually taken care of in hardware..

>

> Specifically, Im looking for a byte-by-byte definition of the currently

> accepted packet radio protocol. I understand there has never really
> been a standard layed down on paper, so books on the subject arent all
> that easy to come by, and i guess he's dealing w/ a time constraint as
> well.
>
> Thanks..
>
> Robert J Miskines
> miskines@acsu.buffalo.edu

I have uploaded the "AX.25 Amateur Packet-Radio Link-Layer Protocol,
Version 2.0 October 1984" specification as ax25.doc in /hamradio/packet/
on ucsd.edu . If you have problems getting the file, I'll be pleased to
email it to you.

Maybe for PC-compatibles, use code from Poor Man's Packet:

- I. Page 8 August 1991 73 magazine.
- II. Anonymous FTP: helios.tn.cornell.edu (128.84.241.2),
/pub/PMP/pmp11dsk.zip .

(If you have Internet mail but not FTP, try the FTP mail server: send a
mail message with the subject "help" and a single message line "help" to
ftpmail@decwrl.dec.com)

I also offer to email any combination of the following files:

42024 bytes, Dec 8 13:06, faq_ham9212	= rec.radio.amateur.misc FAQ
14055 bytes, Jan 4 21:46, faq_packet	= rec.radio.amateur.packet FAQ
11433 bytes, Aug 11 17:37, packet.tut	= A "packet tutorial"

Just email me.

73

Ted Cline, NØRQV
ted_cline@hplsla.lvld.hp.com
tccline@hplslx.lvld.hp.com
VOICE: (303) 679-2352
FAX: (303) 679-5971

VXI Systems Division
Hewlett-Packard, M/S CU-326
815 14th Street SW
P.O. Box 301
Loveland, CO 80537 USA

Date: 18 Feb 1993 21:18:05 -0500

From: usc!wupost!bigboy.sbc.com!news.mtholyoke.edu!mhc.mtholyoke.edu!

wvogel@network.UCSD.EDU
Subject: computer help needed
To: packet-radio@ucsd.edu

i realize this really the isn't the right place for this but all you packet
users seem to be fairly much computer oriented
i just received a boat anchor computer called a CADO Systems mod CAT III
does anyone out there have any idea what i can do to this machine
to make it work as a terminal system ?

tnx in advance
wayne N10FF

```
-----
/ - / - / - /      |      From Wayne E. Vogel
/ - / - / - /      / - - / - - /      wvogel@mtholyoke.edu
      |              x              |
/ - - / - - /      x      / - - / - - /      QTH West Springfield, Ma
      x      .      - - x - -      x      icbmnet 42.06.25 n 72.37.15 w
      - x      |              x              x
      x      |              - - x      x      Amatuer Call sign N10FF
      x - - - - | - - - - | | x      x      449.175 -5 pl 114.0
      /              | | x \      /      \
      / - - - - - - - / | | x \      / - - - - \      its hard to soar with eagles
      | [ ] [ ] ## [ ] | | x | | | | | | when you work with turkeys
      |              ## | | x | | | | | |
-----//-----your shack or mine ?-----
-----//-----
-----
```

Date: 18 Feb 1993 23:40:21 GMT
From: sdd.hp.com!think.com!Think.COM!bruce@network.UCSD.EDU
Subject: KISS on MFJ-1278
To: packet-radio@ucsd.edu

I just last night recieved the 3.6 PROM upgrade for my MFJ-1278, which previously
had 5-year-old PROMs in it (version 1.1). The new PROMs came with only an
incremental manual from version 3.3.

Anyway, I want to bring up NOS. I've managed to put the 1278 in KISS mode, but when I put trace on in NOS, it displays everything as AX25, mostly with "bad header". When I try to initiate a connection in ax25, it clearly sends a connection packet which is responded to by the other side, but the reply is junked by NOS.

I assume I don't have all the parameters set up correctly. Could someone please send me the configuration necessary for getting KISS set up on the 1278 for NOS?

--

--Bruce Walker
Thinking Machines Corporation, Cambridge, MA
bruce@think.com; +1 617 234 4810; WT1M

Date: 19 Feb 93 10:40:19 GMT
From: waikato.ac.nz!aukuni.ac.nz!nacjack!richard@decwrl.dec.com
Subject: NOSintro - TCP/IP over Packet Radio
To: packet-radio@ucsd.edu

> Will one of the lucky few on the net that got complimentary copies be
> so kind as to post Dowermain's address. I'd sure appreciate it.

In the interests of all, I shall post what I received, perhaps it should go in the FAQ? (hahahahahaha) Note, I have no connection whatsoever with the writer or publisher, but since so many people are interested, here is the full info:

```

* * * * *
*           -----           *
*           "NOSintro"        *
*           -----           *
*           *                 *
*           An Introduction to  *
*           KA9Q               *
*           Network Operating  *
*           System            *
*           *                 *
*           by Ian Wade, G3NRW *
*           *                 *
*           *                 *
*           A "DOWERMAIN" PUBLICATION *
*           *                 *
*           ISBN 1-897649-00-2    *
*           *                 *
* * * * *

```

356 pages, fully illustrated.

GB Pounds sterling: 11.50 + packing and postage

"NOSintro", the definitive guide to the KA9Q Network Operating System (NOS), is now available.

In "NOSintro" you'll find a wealth of practical information, hints and tips for setting up and using the KA9Q NOS.

Ideal for beginners and more advanced users alike.

The emphasis is on hands-on practicalities. You'll see exactly:

- ** how to install NOS on a PC.
- ** how to set up the control files.
- ** how to check out basic operations before going live.
- ** how to use NOS commands for transferring files, logging in to remote systems, sending mail and so on.

=====
What's Inside

- =====
1 Intro to NOSintro
2 NOSview
3 The Ground Rules
4 NOS in a Nutshell
5 Let's Meet the Locals
6 The TNC Revisited
7 A Peek at Protocols
8 Names, Domains and Addresses
9 Client/Server
10 Hands On - Hardware Checkout
11 Hands On - Software Installation
12 NOS File Compendium
13 Hands On - Session Manager
14 The NOS Command Set
15 Hands On - autoexec.nos

- 16 The ftpusers File
- 17 Hands On - FTP
- 18 NOS BBS - The Big Picture
- 19 Setting up the NOS BBS
- 20 The NOS BBS Command Set
- 21 Hands On - BBS File Server
- 22 Hands On - Remote Sysop
- 23 Forwarding SMTP Mail
- 24 Pop Mail Collection
- 25 PBBS Mail Forwarding
- 26 AX.25 Routing
- 27 Address Resolution Protocol
- 28 IP Routing
- 29 NET/ROM Routing
- 30 Going Live: Preparing the Files
- 31 Hands On - AX.25
- 32 Hands On - NET/ROM
- 33 Hands On - Ping and Hop
- 34 Hands On - DNS System
- 35 Trailing Flag

=====
Appendices

- =====
- 1 Where to get the Software
 - 2 NOS Command Set Reference
 - 3 NOS Control Files
 - 4 Character Codes
 - 5 IP Address Coordinators
 - 6 References

- ** 356 pages, copiously illustrated with over 80 detailed diagrams, plus countless examples of commands and screen displays.
- ** Extensive and detailed appendices.
- ** Full listings of all the control files needed for NOS.
- ** Although specifically written for a DOS environment, most of the text is equally applicable to Amiga, Atari, MAC, UNIX, VMS and Archimedes implementations of NOS.

=====

MAIL ORDER PRICES

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All prices are in (GB pounds sterling).

Mail to UK addresses:	12.85	GB pounds
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Airmail to Americas, Africa:	16.73	GB pounds
Airmail to rest of the world:	17.34	GB pounds

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Cheque to be made payable to "DOWERMAIN LTD" and crossed
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or

2. By credit card. You will be charged the appropriate price
listed above in GB pounds sterling. Your credit card company
will add a nominal currency conversion charge if applicable.

To obtain your copy, please print out and fill in the order form
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----- cut here -----

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Address:

.....

.....

.....

Please send me a copy of "NOSintro" and bill my credit card:

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(delete where not applicable)

Credit Card No (VISA/Mastercard/Eurocard):

Expiry Date:

Signature:

----- cut here -----

then mail to:

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Harlington
DUNSTABLE
Bedfordshire
LU5 6NF
United Kingdom

(Please note: your order must be in written/printed form.
We cannot accept orders by phone or electronic mail).

P.S. The book "NOSintro" makes several references to the
"NOSview" software package. This package contains a
full working set of KA9Q NOS software, complete with
all the control files listed in the book.

The "NOSview" software is available free of charge.
If you would like a copy, enclose a DOS-formatted
diskette (any size EXCEPT 360KB) with your order for
the book. N.B. I can only supply the software in
DOS format.

(Please make sure the diskette is adequately protected.
I've received a few diskettes recently in very flimsy
airmail envelopes, and of course they were damaged).

"I used to think I was sensible, that makes the
truth even more incomprehensible..." - ABBA

(send email for a list of alternative addresses =8^)

Date: Thu, 18 Feb 1993 21:11:57 +0000
From: pipex!demon!wise.demon.co.uk!simon@uunet.uu.net
Subject: NOSintro - TCP/IP over Packet Radio
To: packet-radio@ucsd.edu

In article <9302162357.AA17595@ucsd.edu> fletcher@moho.uwyo.EDU writes:

>I have now checked with 2 local bookstores (includes the one at the University
>here), and two of Denver's biggies (includes the Tattered Cover). None have
>the book listed in Books in Print (no surprise there). It is also absent from
>forthcoming books. None have any information that Dowermain, Ltd. exists.
>One and all turned up their noses at the ISBN number (wonder what good it is,
>then?). For the moment, the only hope lies in obtaining the publishers
>address if you want this book.

>
>Will one of the lucky few on the net that got complimentary copies be so kind
>as to post Dowermain's address. I'd sure appreciate it.

>
>I hope I have all the information correct:

>
>NOSintro - TCP/IP over Packet Radio, an introduction to the KA9Q Network
>Operating System

>
>Ian Wade, G3NRW

>
>ISBN 1-897649-00-2

>
>Dowermain, Ltd.
>no address available - therein lies my latest hope

>
>
Ian's address is :-
Ian Wade (G3NRW)
7 Daubeney Close
Harlington
Dunstable
Bedfordshire LU5 6NF
U.K.

Email :- g3nrw@dircon.co.uk
AX25 :- G3NRW@GB7BIL.#27.GBR.EU

The Publishers address is :-
Dowermain Ltd
Maxet House
Liverpool Road
Luton
Bedfordshire LU1 1RF
U.K.

It is available at :-
The PC Bookshop
21 Sicilian Avenue
Southampton Row
London WC1A 2QH

Tel :- 44 71 831 0022 FAX :- 44 71 831 0443

Hope this is of some assistance.

Regards Simon

--

```
+-----+-----+
| G1FHY      | AMPR.NET - g1fhy@hub.g1fhy.ampr.org [44.131.7.128] |
| Simon Wise |           - g1fhy@g1fhy.ampr.org [44.131.7.138]   |
| 51 Hamilton Road | AX25 BBS - G1FHY@GB7HSN.#32.GBR.EU           |
| West Norwood  | INTERNET - simon@wise.demon.co.uk             |
| London SE27 9RZ | BT NET   - 44 81 766 0120                     |
+-----+-----+
```

Date: Thu, 18 Feb 1993 21:22:00 +0000
From: pipex!demon!wise.demon.co.uk!simon@uunet.uu.net
Subject: NOSintro - TCP/IP over Packet Radio
To: packet-radio@ucsd.edu

In article <1ltk45INN67s@tamsun.tamu.edu> kurt@cs.tamu.edu writes:

>In article <729907499snz@wise.demon.co.uk>, simon@wise.demon.co.uk (Simon Wise)
> writes:
>|> In article <18b2127f@nacjack.gen.nz> richard@nacjack.gen.nz writes:
>|>
>|> >
>|> >That book mentioned here about TCP/IP under packet (350+ pages)?
>|> >

```

>|> >I checked my local bookstore's CD, and the ISBN isn't listed, and neither
>|> >is the publisher. Does anyone have any more info?
>|> >
>|> >Hex
>|> >
>|> The book you want is "NOSintro - TCP/IP over packet radio" by Ian Wade G3NRW
>|> ISBN 0-897649-00-2 ... Publisher is DOWERMAIN LTD,
>|>                                     7 Daubeney Close,
>|>                                     Harlington,
>|>                                     Dunstable,
>|>                                     Bedfordshire LU5 6NF
>|>                                     U.K.
>|>
>
>Hmmm, maybe we could get a bulk order done?
>
>--
>Kurt Freiberger, wb5bbw   kurt@cs.tamu.edu   409/847-8607   fax:409/847-8578
>Dept. of Computer Science, Texas A&M University       DoD #264: BMW R80/7 pilot
>"We preserve our freedom using three boxes: ballot, jury, and cartridge."
>   *** Not an official document of Texas A&M University ***
>
A slight boob on my part the info above is incorrect & is infact
Ian Wade's address. The publishers address is:-

```

Dowermain Ltd
Maxlet House
Liverpool Road
Luton
Bedfordshire LU1 1RF
U.K.

Regards Simon

```

--
+-----+-----+
| G1FHY      | AMPR.NET - g1fhy@hub.g1fhy.ampr.org [44.131.7.128] |
| Simon Wise | NTS.BBS  - g1fhy@gb7hsn.#32.gbr.eu                 |
| 51 Hamilton Road | INTERNET - simon@wise.demon.co.uk                 |
| West Norwood  | BT NET   - 44-81-766-0120                          |
| London SE27 9RZ |                                     |
+-----+-----+

```

```

-----
Date: 19 Feb 1993 01:37:32 GMT
From: sun-barr!news2me.EBay.Sun.COM!exodus.Eng.Sun.COM!appserv.Eng.Sun.COM!
concertina!fiddler@ames.arpa

```

Subject: packet/BBS addressing question
To: packet-radio@ucsd.edu

(I tried asking this last week, but our mailer seems to have died temporarily...)

If I were to be set up for operating packet on 2m, and someone I wanted to communicate with was also set up for it...

How do I get my message(s) from here to there? Do I have to determine a repeater path from here to there, or do I just send it into the ether (and hope)?

A complete description of the process would be nice. A pointer to an ARRL (or other) publication would be OK. email is fine.

thanks

seh

--

| Some things are too important not to give away |
| to everybody else and have none left for yourself. |
|----- Dieter the car salesman-----|

Date: Wed, 17 Feb 1993 00:37:06 +0000
From: usc!howland.reston.ans.net!agate!doc.ic.ac.uk!pipex!demon!bobg.demon.co.uk!
bob@network.UCSD.EDU
Subject: Packet White Pages in other countries
To: packet-radio@ucsd.edu

In article <11659@prijat.cs.uofs.edu> bill@cs.uofs.edu writes:

>I have used the White Pages server here in the states, and although it
>isn't perfect, it is a lot better than nothing. Does anyone know if
>there are similar servers in other countries, particularly Great Britain
>and Germany?? I would love to find out if some of my old acquaintances
>are currently reachable using packet radio.
>
>bill KB3YV

Yes, GB3XP collects the WP Updates for Great Britain.
Send me your queries.

--

Regards,

Date: Thu, 18 Feb 1993 17:11:56 GMT
From: swrinde!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!fstop.csc.ti.com!
sbrown@network.UCSD.EDU
Subject: TCP/IP book for packet?
To: packet-radio@ucsd.edu

```
> |> The book you want is "NOSintro - TCP/IP over packet radio" by Ian Wade G3NRW
> |> ISBN 0-897649-00-2 ... Publisher is DOWERMAIN LTD,
> |>                                     7 Daubeney Close,
> |>                                     Harlington,
> |>                                     Dunstable,
> |>                                     Bedfordshire LU5 6NF
> |>                                     U.K.
> |>
>
> Hmmm, maybe we could get a bulk order done?
```

```
*****
| Steve Brown, WD5HCY | Simplicate |
| sbrown@charon.dseg.ti.com | and add |
| wd5hcy@kf5mg.#dfw.tx.usa.na | lightness. |
| (214) 575-3597 | |
| MSG:SBRN | - Bill |
| MS 8496, PSK0 | Stout |
*****
```

Date: Fri, 12 Feb 1993 16:12:17 GMT
From: news.encore.com!cser!araichel@uunet.uu.net
Subject: What is best modem for Satellite Packet?
To: packet-radio@ucsd.edu

modems that I have found were HALF the price of the 1200 baud pacsat modems! I think that there are two satellites that use the 9600 baud modems, and a lot more that use the 1200 baud ones. Which would be better to start off with?

I do like the idea of going to 9600 baud on terrestrial links, but I need someone else to talk to, first! I could justify the cost if I could use them on a satellite also. I realise that with the 9600 baud modems, I will have to get another radio to modify for direct FM, while with the 1200 baud modems, I could use the existing all mode radio. Any suggestions?

Thanks
alan

NAME: Alan Raichel | ICBM: 76 30' W 39 10' N | If the answer seems
EMAIL: araichel@encore.com | CITY: Pasadena, MD | Trivial, then you do
CALL: N3IKI | #include <stdclaimer.h> | not understand the
----- problem!

Date: 18 Feb 93 18:30:16 GMT
From: idacrd!tang!n4hy@uunet.uu.net
Subject: What is best modem for Satellite Packet?
To: packet-radio@ucsd.edu

Get the 9600 baud modem. With the launch of kitsat, there is a tremendous amount of link time available and the modem can be used terrestrially as well.

BMc
--

Robert W. McGwier | Bob's interests include amateur radio,
Institute for Defense Analyses | astronomy, and golf (10 handicap fanatic)
Center for Communications Research | Asst. Scoutmaster BSA Troop 5700
Princeton, N.J. 08520 | n4hy@ccr-p.ida.org (internet)

Date: 18 Feb 93 18:32:07 GMT
From: idacrd!tang!n4hy@uunet.uu.net
Subject: What is best modem for Satellite Packet?
To: packet-radio@ucsd.edu

Get the 9600 baud FSK modem. With the launch of KITSAT it doesn't really make sense for the reasonably well equipped satellite user to try and send and receive mail with the 1200 bps satellites. There are

only 2 of them for use as a store and forward satellite as well. The 9600's are in wide use around here terrestrially.

BMc

--

```
-----  
Robert W. McGwier          | Bob's interests include amateur radio,  
Institute for Defense Analyses | astronomy, and golf (10 handicap fanatic)  
Center for Communications Research | Asst. Scoutmaster BSA Troop 5700  
Princeton, N.J. 08520      | n4hy@ccr-p.ida.org (internet)  
-----
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End of Packet-Radio Digest V93 #45
